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IN THE SPECIFICATION

Page 1, line 7 insert; This application is a continuation-in-part and-a divisional of U.S. Serial

No. 958,562, filed October 8, 1992, now U.S. Patent No. 5,453,357.

IN THE CLAIMS

- -1. (amended) An isolated [non-mouse] <u>non-murine</u> mammalian pluripotential [embryonic] stem cell which can:
 - (a) be maintained on feeder layers for at least 20 passages; and
 - (b) give rise to embryoid bodies and multiple differentiated cell phenotypes in monolayer culture; and wherein the cell has the growth and differentiation characteristics of a cell derived by:
 - (1) culturing a non-murine mammalian primordial germ cell in a composition comprising basic fibroblast growth factor, leukemia inhibitory factor, membrane associated steel factor, and soluble steel factor;
 - (2) selecting cells that have characteristics (a) and (b), above, and

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(3) isolating the non-murine pluripotential stem cell.

--2. (amended) The [embryonic] stem-cell of claim 1, having a mutation which renders a gene non-functional.

-3. (amended) The [embryonic] stem cell of claim 1, having an insertion of a functional gene.

4. (amended) An isolated human pluripotential [embryonic] stem cell which can:

(a) be maintained on feeder layers for at least 20 passages; and

(b) give rise to embryoid bodies and multiple differentiated cell phenotypes in monolayer culture; and wherein the cell has the growth and differentiation characteristics of a cell derived by:

comprising basic fibroblast growth factor, leukemia inhibitory factor, membrane associated steel factor, and soluble steel factor:

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(2) selecting cells that have characteristics (a) and (b), above, and

(3) isolating the human pluripotential stem cell.

--7. (twice amended) A composition comprising:

(a) human pluripotential [embryonic] stem cells which can:

(1) be maintained on feeder layers for at least 20 passages; and

(2) give rise to embryoid bodies and multiple differentiated cell phenotypes in monolayer culture; and wherein the cell has the growth and differentiation characteristics of a cell derived by:

a. culturing a human mammalian primordial germ cell in a composition comprising basic fibroblast growth factor, leukemia inhibitory factor, membrane associated steel factor, and soluble steel factor;

b. selecting cells that have characteristics (1) and (2) above, and

isolating the human pluripotential stem cell: and

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